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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,172	06/08/2006	Hiroshi Nakanishi	4539-0115PUS1	8941
	7590 12/22/200 ART KOLASCH & BI	EXAMINER		
PO BOX 747	CH 3/A 220/0 07/7	KIANNI, KAVEH C		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			2883	
			NOTIFICATION DATE	DELIVERY MODE
			12/22/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary		Application No.	Applicant(s)			
		10/582,172	NAKANISHI ET AL.			
		Examiner	Art Unit			
		K. Cyrus Kianni	2883			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 🖂	Responsive to communication(s) filed on <u>03 Se</u>	eptember 2008				
<i>'</i> —	• • • • • • • • • • • • • • • • • • • •	action is non-final.				
· · · · ·	Since this application is in condition for allowar		secution as to the merits is			
٠,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims	•				
- 4)□	Claim(s) <u>1-28</u> is/are pending in the application.					
· —	4a) Of the above claim(s) <u>19-27</u> is/are withdrawn from consideration.					
	·					
·=	· <u> </u>					
· · · · · ·	Claim(s) 28 is/are objected to.					
•—		r election requirement				
8)□	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	on Papers					
9) 🗌 .	The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>08 June 2006</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da				
3) 🔯 Inforn	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 9/3/08.		atent Application (PTO-152)			

DETAILED ACTION

Allowable Subject Matter

Claim 28 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 28 is allowable because the prior art of record, taken alone or in combination, fails to disclose or render obvious the step of having the light obliquely enter the photocurable material layer via each blue picture element in combination with the rest of the limitations of the base claim.

Claims 9-11 are allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein step (c) comprises a step of performing exposure to substantially parallel light while varying an incident angle of the substantially parallel light with respect to the one principal face in combination with the rest of the limitations of the base claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-8 and 12-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahara; Hiroshi US 6628355 B1.

Tanhakara teaches a production method for a display panel having a microlens array (see at least fig. 95), including a display panel and a plurality of microlenses provided on a light-incident side of the display panel (see filed of invention and fig. 95)), comprising:

- (a) a step of providing a display panel having a plurality of pixels in a matrix arrangement (see col. 5, 3rd parag.), wherein each of the plurality of pixels has a plurality of picture elements, including a first picture element transmitting first color light to display the first color and a second picture element transmitting second color light which is different from the first color light to display the second color (see at least col. 5, 3rd parag. and first parag. of summary of invention, also fig. 15, 20, 142-146); (b) a step of forming a photocurable material layer 691 on one of a pair of Outer principal faces, being opposite to each other, of the display panel (at least fig. 69, 95 and col. 130, lines 34-65+);
- (c) a step of exposing the photocurable material layer to light via the display

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panel, wherein the photocurable material layer is at least partially cured with light which has been transmitted through at least the first picture element (at least fig. 95 and col. 130, lines 34-65+ the microlenses 641 behind the color filter 151 and pixel electrodes 14a,14b and 14c red, blue and green col. 72, lines 35-48; wherein the microlens is positioned at exit side of the display thus being irradiation through the display having pixel array see col. 129, line 50+); and (d) a step of etching an uncured portion of the photocurable material layer having been exposed to light, thereby forming a plurality of microlenses (see at least fig. 95-96 and parag. 347-349).

Takahara further teaches wherein step (a) is a step of providing a display panel such that, among central wavelengths of any color light transmitted through the plurality of picture elements, a central wavelength of the first color light is the shortest wavelength (see pixel electrodes 14a,14b and 14c wherein blue has the shortest c. wavelength); wherein step (b) is a step of forming a photocurable material layer which is photosensitive to light of shorter wavelengths than the central wavelength of the first color light (see pixel electrodes 14a,14b and 14c wherein blue is shorter than green and green is shorter wavelength than that the red color); wherein step (c) comprises a step of at least partially curing, with light transmitted through the first picture element, the photocurable material layer corresponding to the plurality of picture elements included in each of the plurality of pixels; and step (d) comprises a step of forming a plurality of microlenses arranged in accordance with the arrangement of the plurality of pixels of the display panel (at least fig. 95-96 and col. 130, lines 34-65+ and parag.

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347-349); wherein step (a) is a step of providing a display panel such that each of the plurality of pixels has the first picture element in a substantial center thereof (see t least fig. 95 and pixel electrodes 14a,14b and 14c. colors RGB); wherein, step (a) is a step of providing a display panel such that the plurality of picture elements include a red picture element, a blue picture element, and a green picture element; and step (c) is a step of at least partially curing the photocurable material layer with light transmitted through at least the blue picture element (at least fig. 95 and col. 130, lines 34-65+ the microlenses 641 behind the color filter 151 and pixel electrodes 14a,14b and 14c red, blue and green col. 72, lines 35-48; wherein the microlens is positioned at exit side of the display thus being irradiation through the display having pixel array see col. 129, line 50+); wherein step (b) is a step of forming a photocurable material layer which is photosensitive to light in a wavelength range of no less than 380 nm and no more than 420 nm (see pixel electrodes in these wavelength ranges such as G and B); wherein step (c) comprises a step of at least partially curing, with light transmitted through at least the blue picture element, regions of the photocurable material layer corresponding to the red picture element, the blue picture element, and the green picture element. (at least fig. 95 and col. 130, lines 34-65+ the microlenses 641 behind the color filter 151 and pixel electrodes 14a,14b and 14c red, blue and green col. 72, lines 35-48; wherein the microlens is positioned at exit side of the display thus being irradiation through the display having pixel array see col. 129, line 50+);

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wherein step (c) comprises a step of adjusting a light distribution (see col. 3, 2nd para.); wherein step (c) comprises a step of adjusting the light distribution by using a photomask having a predetermined distribution of transmittance (see above discussed color pixels); wherein the microlenses each have a flat portion in an apex portion thereof, the flat portion having no light converging effects (shown fig. 95); wherein the microlens are lenticular lenses, each flat portion having a size substantially equal to or smaller than a size of an aperture of each picture element of the display panel along a converging direction of the lenticular lenses (see col. 97, 2nd parag.); wherein the microlenses correspond to respective apertures of the plurality of picture elements of the display panel, each flat portion having a size substantially equal to or smaller than a size of an aperture of each picture element (at least fig. 95-96 and col. 130, lines 34-65+ the microlenses 641 behind the color filter 151 and pixel electrodes 14a,14b and 14c red, blue and green col. 72, lines 35-48; wherein the microlens is positioned at exit side of the display thus being irradiation through the display having pixel array see col. 129, line 50+); disposing a surface illuminant at the microlens side of the display pane I or a surface illuminant for emitting light toward the microlens array of the display panel (see col. 6, lines 55-65).

However, Takahara does not specifically teach wherein the above etching of uncured material is that of removing the material. It is obvious/well-known to those of ordinary skill in the art when the invention was made that etching a material is/known as removing material since such removing would provide correction and driving the display panel optimally (see col. 1).

Response to Arguments and Amendment

Applicant's argument filed on 9/30/08 have been fully considered but they are not persuasive. Applicant alleges that Takahara does not teach the process steps b-c. The applicant's assertions are based on the notion that said steps fail to teach Fresnel lens production. The examiner responds that the applicant is not specific as why Takahara fails to teach the above steps since the limitation "Fresnel lens" is not even a part of the claim steps, And as stated above Takahara teaches ala claimed limitations except the above objected claims.

 Applicant is kindly advised to appropriately narrow the scope of the invention in order to allow the case.

THIS ACTION IS MADE FINAL

This action in response to applicant's amendment made FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no

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event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to K. Cyrus Kianni whose telephone number is 571-272-2417. The examiner can normally be reached on 9:30-19:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/K. Cyrus Kianni/

Primary Examiner, Art Unit 2883

12/16/2008